

Supplemental Disclosure Statement
~~EXAMINER'S REPORT BY APPLICANT~~

(Use several sheets if necessary)

ATTY. DOCKET NO.

22178

Sheet 1 of 1

SERIAL NO.

314,124

APPLICANT

Richard H. Tullis

FILING DATE

October 23, 1981

GROUP

127

EXAMINE
INITIAL

☒ Doel & Smith, "The Chemical Synthesis of Deoxyribo-
oligonucleotides Complementary to a Portion of the Lysozyme
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☒ Barrett, Miller & Ts'o, "Inhibitory Effect of Complex
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☒ Holder & Lingrel, "Determination of Secondary Structure in
Rabbit Globin messenger RNA by Thermal Denaturation,"
Biochemistry, 14:19, 4209-4215 (1975).
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☒ Van, Monahan, Woo, Means & O'Malley, "Comparative Studies
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its Complementary DNA Transcript," Biochemistry, 16:18,
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☒ Mevarech, Noyes & Agarwal, "Detection of Gastrin-Specific
mRNA Using Oligodeoxynucleotide Probes of Defined Sequence,"
J. Bio. Chem., 254:16, 7472-7475 (1975).
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☒ Marx, "Gene Transfer Moves Ahead," Science, 210:1334-1336
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☒ Tullis, Gutierrez & Rubin, "Specific Detection of Human
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☒ Gubler, Kilpatrick, Seeburg, Gage & Udenfriend, "Detection
and Partial Characterization of Proenkephalin mRNA," Proc.
Natl. Acad. Sci., 78:9, 5484-5487 (1981).
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☒ Sood, Pereira & Weissman, "Isolation and Partial Nucleotide
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Antigen HLA-B by Use of an Oligodeoxynucleotide Primer,"
Proc. Natl. Acad. Sci., 78:1, 616-620 (1981).
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EXAMINE

REFERENCE: If a reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 REV. 7-801		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. <u>22178</u>	SHEET <u>1</u> OF <u>3</u>
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT <u>Tullis</u>	SERIAL NO. <u>314124</u>
				FILING DATE <u>10/23/81</u>	GROUP <u>127</u>
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS

Miller, Fang, Kondo and Ts'o, "Synthesis and Properties of Adenine and Thymine Nucleoside Alkyl Phosphotriesters, the Neutral Analogs of Dinucleoside Monophosphates," Journal of The American Chemical Society, 93:24, 6657-6665 (1971).

Pitha, "Analogues of Viral Genomes," Selective Inhibitors of Viral Functions (Carter, W.A. (ed.)), C.R.C. Press, Cleveland, Ohio, 349-360 (1973).

Arya, Carter, Alderfer and Ts'o, "Inhibition of RNA Directed DNA Polymerase of Murine Leukemia Virus by 2'-O-Alkylated Polyadenylic Acids," Biochemical and Biophysical Research Communications, 59:2, 608-615 (1974).

~~Barrett, Miller and Ts'o, "Inhibitory Effect of Complex Formation with Oligodeoxyribonucleotide Ethyl Phosphotriesters on Transfer Ribonucleic Acid Aminoacylation," Biochemistry, 13:24, 4897-4906 (1974).~~

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Arya, Carter, Alderfer and Ts'o, "Inhibition of Ribonucleic Acid-Directed Deoxyribonucleic Acid Polymerase of Murine Leukemia Virus by Polyribonucleotides and Their 2'-O-Methylated Derivatives," Molecular Pharmacology, 11:421-426 (1974).

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GROUP 127

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NA Narang, Itakura and Katagiri, "Oligonucleotides Containing Phosphotriester Internucleotidic Groups as Novel Substrates for Polynucleotide Enzymes," Canadian Journal of Biochemistry, 53:392-394 (1975).

ML Miller, Braiterman and Ts'o, "Effects of a Trinucleotide Ethyl Phosphotriester, G^mp(Et)G^mp(Et)U, on Mammalian Cells in Culture," Biochemistry, 16:9, 1988-1996 (1977).

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ML Vengris, Pitha and Sensenbrenner, "Polymeric Drugs: Direct Compared with Indirect Inhibition of Leukemia Virus Replication in Mice," Molecular Pharmacology, 14:271-277 (1978).

ML Stephenson and Zamecnik, "Inhibition of Rous Sarcoma Viral RNA Translation by a Specific Oligodeoxyribonucleotide," Proc. Nat. Acad. Sci. USA, 75:1, 285-288 (1978).

ML Zamecnik and Stephenson, "Inhibition of Rous Sarcoma Virus Replication and Cell Transformation by a Specific Oligodeoxynucleotide," Proc. Natl. Acad. Sci. USA, 75:1, 280-284 (1978).

ML Agarwal and Riftina, "The Synthesis and Enzymatic Properties of Deoxyribooligonucleotides containing Methyl and Phenylphosphonate Linkages," Nucleic Acids Research, 6:9, 3009-3024 (1979).

ML Bodell, Singer, Thomas and Cleaver, "Evidence for Removal at Different Rates of O-Ethyl Pyrimidines and Ehtylphosphotriesters in Two Human Fibroblast Cell Lines," Nucleic Acids Research, 6:8, 2819-2829 (1979).

ML Miller, Yano, Yano, Carroll, Jayaraman and Ts'o, "Nonionic Nucleic Acid Analogues. Synthesis and Characterization of Dideoxyribonucleoside Methylphosphonates," Journal of the American Chemical Society, 101:23, 5135-5143 (1979).

EXAMINER [Signature]

DATE CONSIDERED 11/1/81

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U.S. PATENT DOCUMENTS

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<u>AM</u>			Pluskal, Roy and Sarkar, "Isolation of an Oligonucleotide, a Potent Inhibitor of Eukaryotic and Viral Messenger Ribonucleic Acid Translation, from Chick Embryonic Muscle," Biochemical Society Transactions, <u>7</u> :1091-1093 (1979).			
			Stebbing, "Cellular Uptake and In Vivo Fate of Polynucleotides," Cell Biology International Reports, <u>3</u>:6, 485-502 (1979).			
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<u>AM</u>			Stebbing, "The Design of Antiviral Agents Based on Strategic Sequences in Viral RNA and Antiviral Effects of Single Stranded Polynucleotides," Pharm. Therap., <u>6</u> :291-332 (1979).			
<u>AM</u>			Summerton, "Intracellular Inactivation of Specific Nucleotide Sequences: A General Approach to the Treatment of Viral Diseases and Virally-Mediated Cancers," Journal of Theoretical Biology, <u>78</u> :77-79 (1979).			
<u>AM</u>			Miller, McParland, Jayaraman and Ts'o, "Biochemical and Biological Effects of Nonionic Nucleic Acid methylphosphonates," Biochemistry, <u>20</u> :7, 1873-1880 (1981).			
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

1. J. M.